

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/JP 03/00818

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04Q7/32 H04M1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/021657 A1 (MORITA YUICHI) 13 September 2001 (2001-09-13) page 1, paragraph 8 - paragraph 17; figures 1-4 abstract	1,9
X	US 5 933 328 A (HARARI ELIAHOU ET AL) 3 August 1999 (1999-08-03) column 1, line 45 -column 2, line 5; figures 9A,9B abstract	1,9
Y	US 6 568 960 B1 (BRICAUD HERVE GUY ET AL) 27 May 2003 (2003-05-27) column 1, line 40 -column 2, line 24; figures 1-75 abstract	1-11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

21 June 2004

Date of mailing of the international search report

13. 07. 2004

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

BEHROZ MORADI/MN

INTERNATIONAL SEARCH REPORT

International Application No
PC 03/00818

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2 363 882 A (LU PING CHANG) 9 January 2002 (2002-01-09) page 1 -page 3 abstract; figures 1-6 ---	1-11
Y	DE 196 11 237 A (SIEMENS AG) 25 September 1997 (1997-09-25) abstract; figures 1-3 ---	1-11
Y	US 2003/153356 A1 (LIU SHIH-YUAN) 14 August 2003 (2003-08-14) page 1, paragraph 13 -page 2, paragraph 20 abstract; figures 1-23 -----	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT, ... 93/00818

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2001021657	A1	13-09-2001	JP 2001251402 A GB 2366060 A ,B	14-09-2001 27-02-2002
US 5933328	A	03-08-1999	NONE	
US 6568960	B1	02-08-2001	FR 2783622 A1 AT 229674 T CA 2338840 A1 DE 69904494 D1 DE 69904494 T2 EP 1116159 A1 JP 2002525818 T US 2001010984 A1 CN 1140877 C WO 0017806 A1 TW 470919 B	24-03-2000 15-12-2002 30-03-2000 23-01-2003 04-09-2003 18-07-2001 13-08-2002 02-08-2001 03-03-2004 30-03-2000 01-01-2002
GB 2363882	A	09-01-2002	DE 20009217 U1	24-08-2000
DE 19611237	A	25-09-1997	DE 19611237 A1	25-09-1997
US 2003153356	A1	14-08-2003	NONE	